

ABSTRACT OF THE DISCLOSURE

A process for producing solid, porous graphites which provides a more uniform density gradient throughout the ultimate product. The process utilizes a pressure drop during processing in order to induce boiling and varies the processing pressure between an initial pressure which exceeds 1000psig and a final processing pressure which generally exceeds the initial pressure. The particular processing techniques employed allow additional viscosity manipulation as well as improved density gradient characteristics in the ultimate product. The final products have bulk thermal conductivities in the range from 90 - 300 W/mK with apparent densities ranging from about 0.678g/cc - 1.5g/cc